



Our Design Technology and STEM Curriculum

Local Memories, Broadening Horizons

I N T E N T	At BMPS	We guide our learners to understand the value of DT in society and as a broad range of skills that have been used and developed to face both the physical, logistical and cognitive challenges in human history. We strive to use DT and STEM to help cement, deepen and broaden learning across the curriculum, as well as a developing skills, technical mastery, teamwork, evaluation and experimentation.							
	In D.T.	We aim to do this through the development of creative, technical and practical skills for everyday life, a build up knowledge and understanding of design concepts, products and history, as well as an evaluation of their own and worldwide products and ideas and understanding and application of principles of nutrition and self-care, including cookery and practical, physical and mental well-being.							
I M P L E M E N T A T I O N	Classroom	Observe and explore	Design and sketchbooks	Create/make	Self Evaluate and test	Technical knowledge	Growing, cooking and nutrition.	Learn and read about designs	Cross-curricular link
	Events Local Memories	Competitions	Designer Visits	Gallery and exhibit visits		STEM day/week challenges		Workshops and clubs	
	Parental Engagement	Curiosity Cafes	Class Dojo	Information Events		Involvement with allotment		Design/STEM exhibits	
	Community Broadening Horizons	Local designers to visit	Holkham project on allotment	DT /Lego/design club		Local builders for the nurture area including domestic science area.		Festival participation/competition	
	Training	In class assessment via questioning, marking, group and individual tasks observed and marked		Foundation assessment grids following observations, marking and discussions, all against objectives grid		Use of visitors and visits to help deepen skill and knowledge of staff and children		Monitoring of whole school work being done. Lead to help teachers with aspects of DT, to help coverage and deepen skills	
I M P A C T	Great outcomes	Children will show research in sketchbooks and development of design of products to purposefully meet challenges. They will show this by drawing, templates, mock-ups and more technical and accurate diagrams. They will begin to use ICT to develop this.			Children will use a variety of materials and tools to create and construct and develop products, including meals with ingredients. They will be able to follow instructions and order their processes. They will evaluate their work and that of others in an effort to meet challenges and improve.		They will develop their understanding of technical mechanisms and aspects, such as levers, wheels, cams, switches and other components and use appropriate vocabulary. They will use ICT to develop this		
	Evaluation	Subject Tracking grid	Observation of sketchbooks	Evidence through displays	Evidence of DT and STEM in books	Discussions with staff	Learning walks	Pupil Voice	